

Bridge Inspection									
Bridge File Number	74832 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1978/1978				Lot No.	2			
Bridge or Town Name	VAUXHALL				Inspector Name	Jon Davies			
Located Over	PFR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B			
Located On	36:04 C1 38.225				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	02-Jan-2012			
Legal Land Location	SE SEC 27 TWP 13 RGE 16 W4M				Data Entry By	Alyssa Boynton			
Longitude, Latitude	-112:05:51, 50:06:35				Data Entry Date	22-Feb-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA24				Review Date	20-Jan-2012			
Clear Roadway/Skew	11.7 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	2,030 / 2010 (A)				Dept. Review Date	24-Feb-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	HS25						----> Primary Span		

Posting Information									
Required Load Posting (t)	Single				Semi		Truck Train		
Posted Loading (t)	Single				Semi		Truck Train		
Posted:	Lane	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required								
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone	West side				Gas				
Power	East r/w, 3 line.				Municipal				
Others	Fibre optic cable west ditch				Problem (Y/N)		No		
Remarks									

Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			7	7	Straight, canal access roads at ends, intersection 300m south, grade rises to the north.				
Vertical Alignment			7	7					
Roadway Width (m)		10.600			ADDITIONAL SECTIONS TIED TO H PILES @ 45 DEG. TO ROADWAY - TYP. 4 CORNERS. 3 m RADIUS SECTIONS				
Approach Bump			8	7					
Guardrail (Y/N)		Yes							
Guardrail			4	4					
Length (m)		9.400			Not thriebeam Incorrect lap at N.W W. Beam crack at radium bond reliefs at NW.				
Current Standard (Y/N)		No							
Termination Type		TYPE VI							
Drainage			7	7					
<b>Approach Road General Rating</b>			<b>7</b>	<b>7</b>					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VS, 3 Spans, Lengths(m): 9.1-9.1-9.1, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>	0	0	0	0	
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			7	6	ASPHALT 110 mm THICK AT EAST CURB
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	ACP covered
Deck Rideability			8	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	Drains towards S. deck end. NO DRAINS
Drains Clogged (Y/N)					
Curbs/Median			4	4	EXTERIOR FASCIA IS 30% PEELED. Minor plough damage at inside face of curb.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts			7	7	
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	Narrow longitudinal cracks on girder undersides at Sp1-G1, 5 & 11; Sp2-G1 & 11; Sp3-G1 & 11. Corrosion spots and stains seen with low cover rebar and narrow cracks associated . Curb girder span3-G11.
<b>Last</b>	1	0	0	0	
<b>Now</b>	0	0	0	0	
Girders			N	4	
Last Complete Inspection Date		02-Jan-2012		Lift hook grout pockets starting to deteriorate at west curb. (Two exposed lift strands at east and north span) June 23 2010.	
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No		Several rust stains from connector pockets.	
Horizontal (Y/N)		No			
<b>Superstructure General Rating</b>			<b>5</b>	<b>4</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>600</b> )						
(Width(mm) : <b>400</b> )						
Backwalls/Breastwalls			X	X		
Greatest Height (m)		0.70				
Wingwalls			7	7		
(Total Number of Bearing Piles : <b>0:0</b> )				Buried		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	10	0	0	0		
<b>Now</b>	10	0	0	0		
Piles				N	N	
Paint/Coating			6	5	Heavy stains at A1 and A2.	
Abutment Stability			8	8		
Scour/Erosion			4	5		
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>700</b> )						
(Width(mm) : <b>600</b> )						
(Total Number of Bearing Piles : <b>8:8</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		2.90				
Bracing/Struts/Sheathing			7	7		
Nose Plate			X	X		
Paint/Coating			5	5	At piles -Cap seal at caps -Some minor peeling and deterioration of coatings at piles, bracing and pier caps.	
(Colour Description : <b>GREEN</b> )						
(Colour Code : <b>14090</b> )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	6	
Debris (Y/N)	Yes			Old pilings under bridge.
<b>Substructure General Rating</b>		<b>7</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Turnout 30 m d/s to south.
(D/S Direction : <b>E</b> )				Water Gage in the North east corner
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)	2.0			No visible HWM.
Drift (Y/N)	No			
Slope Protection		4	4	-300mm deep erosion at S.W & N.W. -150mm - Rip Rap
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Grout lift pockets at N.E and at west.					
OTHER ACTION	2012	Replace 1 sections of W beam 3m radius at NW.					
OTHER ACTION	2012	Investigate cracks at span3-G11 curb girder. Repair as required.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>62.8/58.4</b>	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Tom Carey		Previous Assistant's Name				
Next Inspection Date	02-Oct-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							